

## Ongoing R&D Projects (upto March, 2024)

Sl. No.	Project Name	Funding Agency	Name of PI	Department of PI
1	Development of guideline for prevention and mitigation of explosion hazard by risk assessment and determination of explosibility of Indian coal incorporating risk based mine emergency evacuation and re-entry protocol – CIMFR, Dhanbad, ISM, Dhanbad and CIL, Kolkata	CIL, Ranchi	Prof. R.M. Bhattacharjee	Mining Engineering
2	Development of Virtual Reality Mine Simulator (VRMS) for improving safety and productivity in coal mines	CIL, Ranchi	Prof. V. M. S. R. Murthy	Mining Engineering
3	Methane Drainage Prior to Mining	DST, New Delhi	Prof. Devi Prasad Mishra	Mining Engineering
4	Upgradation of Power Hydraulics Lab	DST, New Delhi	Prof. Kabir Dasgupta	Mechanical Engineering
5	Augmentation of research facility in the department of mechanical engineering	DST, New Delhi	Prof. Shailendra Narayan Singh	Mechanical Engineering
6	Thermochemical convection in the Earth's core with thermal core-mantle interaction.	DST, New Delhi	Prof. Swarandeeep Sahoo	Applied Geophysics
7	Investigation into the planning and design aspects governing the selective coal cutting technology using surface minor for various rock conditions for clean coal production	DST, New Delhi	Prof. V. M. S. R. Murthy	Mining Engineering
8	Tinkering and Innovation laboratory	Naresh Vashisht Foundation	Prof. Pankaj Mishra	Physics
9	Development of Energy Efficient Control Scheme for Induction Motor Drive Used in EV and HEV	Department of Heavy Industry, New Delhi	Prof. Sukanta Das	Electrical Engineering
10	CO2 and biomass as feedstock for the production of fuels and chemical intermediates (CO2BioFeed)	Indo-German Science & Technology Centre	Prof. Biswajit Chowdhury	Chemistry and Chemical Biology
11	FIST-2019 Project of Department of Electronics Engineering	DST, New Delhi	Prof. Sushrut Das	Electronics Engineering
12	Auto Irrigation and Soil Monitoring System for COVID-19 Migrants Engagement	IEEE, USA	Prof. Rajeev Kumar Ranjan	Electronics Engineering
13	To strengthen the research facilities in the Department of Chemical Engineering	DST, New Delhi	Prof. Rajiv Shekhar	Chemical Engineering
14	Memristor Based Biosensor Design For COVID-19	MHRD (SICRG), New Delhi	Prof. Rajeev Kumar Ranjan	Electronics Engineering
15	To strengthen the research facilities in the Department of Civil Engineering	DST, New Delhi	Prof. Sarat Kumar Das	Civil Engineering
16	Micromechanics based intra and inter-laminar damage models with emphasis on spatial randomness, boundary layer and interface	DST, New Delhi	Prof. Subhabrata Koley	Mechanical Engineering

17	Improving the quality and yield of salt produced by the marginal agarias of Kutch, Gujarat (Halwad Region) through scientific intervention and improving their income through value addition of bitterns, halophyte plantation and potable water recovery & Arid Region Reclamation Technology with respect to Lignite Mining Areas in Kutch, Gujarat	DST, New Delhi	Prof. Biswajit Paul	Environmental Science & Engineering
18	Micro Scale investigation of miscibility behaviour of CO <sub>2</sub> with crude oil for enhanced oil recovery and its geological sequestration potential in the oil field of Cambay Basin	SERB, New Delhi	Prof. Ajay Mandal	Petroleum Engineering
19	Development of Classification, Identification and Feature Extraction Algorithms using Machine Learning and Artificial Intelligence techniques for Genome Classification, Protein Classification and Medical Image Analysis	SERB, New Delhi	Prof. Subhashis Chatterjee	Mathematics and Computing
20	Control of sprays and thermo-acoustic oscillations through an acoustic driven fuel injector: passive and active control strategy	DST, New Delhi	Prof. Rabindra Nath Hota	Mechanical Engineering
21	Investigating Uncharted 2D Catalytic Materials for Lignocellulosic Biomass Transformation into High-Value Platform Chemicals and Fuel	SERB, New Delhi	Prof. Ejaz Ahmad	Chemical Engineering
22	Accurate Correlation of Dot Size Distribution with the Spectral Response of AS-grown and Interdiffused Stacked Quantum Dots embedded in p-i-n Solar Cells	SERB, New Delhi	Prof. Subindu Kumar	Electronics Engineering
23	Geospatial Science and Technologies	DST, New Delhi	Prof. Srinivas Pasupuleti	Civil Engineering
24	Corrosion potential of industrial waste as a geomaterial using inverse dielectric spectroscopy	SERB, New Delhi	Prof. Sarat Kumar Das	Civil Engineering
25	Assessment of the change detection due to mining activities of SAIL-RMD mines through preparation of High Resolution Satellite map obtained from fusion of CARTOSAT-2 and LISS-IV datasets at a scale of cadastral map and preparation of LULC maps of high-resolution satellite image	Steel Authority of India Limited	Prof. Vasanta Govind Kumar Villuri	Mining Engineering
26	Cow dung derived hybrid adsorbent for heavy metal removal and its subsequent utilization as cheaper electrodes for energy storage devices	DST, New Delhi	Prof. Brijesh Kumar Mishra	Environmental Science & Engineering
27	Low cost treatment method for fluoride and Arsenic contaminated ground water	Ministry of Drinking Water and Sanitation, New Delhi	Prof. Brijesh Kumar Mishra	Environmental Science & Engineering
28	Dynamic Charging of Electric Vehicles Using Wireless Power Transfer Technique	IIT(ISM), Dhanbad	Prof. Pradip Kumar Sadhu	Electrical Engineering
29	Structural and machinery failure analyses through Vibration and Acoustic techniques	Jazan University, Saudi Arabia	Prof. Madan Lal Chandravanshi	Mechanical Engineering

30	Development of molecular catalysts for co2 reduction, water oxidation and reduction	CSIR, New Delhi	Prof. Sumanta Kumar Padhi	Chemistry and Chemical Biology
31	Cloud based Smart Video Surveillance System with Application Layer Cyber Physical Systems Security	Indian Institute of Technology Kanpur	Prof. Arup Kumar Pal	Computer Science and Engineering
32	Sampling and quality assessment of 1.70 Lakh Tons of Rejects of lying between gate of 5.0 MTPA Patherdih NLW Washery and to south side of Kaccha road to Siding at 5.0 MTPA Patherdih NLW Washery	BCCL, Dhanbad	Prof. Shalini Gautam	Fuel, Minerals and Metallurgical Engineering
33	Sampling, analysis and grading of 106805.21 MT in H-14 & 169911.38 MT in H-15 heap of Reject at Patherdih Coal Washery	BCCL, Dhanbad	Prof. Shravan Kumar	Fuel, Minerals and Metallurgical Engineering
34	Delineation of the Administrative Boundary of the Banki River, Garhwa District, Jharkhand: An Implication in Restoration and Conservation of the Ganga River Basin	IIT(ISM), Dhanbad	Prof. Tinesh Pathania	Environmental Science & Engineering
35	Application of Two-Chamber Reactors for Safe Carbonylation Reactions: Affordable Synthesis of Stable Isotope Labelled Drug Standards	Department of Atomic Energy, Mumbai	Prof. Parthasarathi Das	Chemistry and Chemical Biology
36	Design and development of knee and spinal smart protective devices for improving the health and safety of	CIL, Ranchi	Prof. Kalyan Kumar Singh	Mechanical Engineering
37	Alkylthiocyanates as New Bifunctional Reagents in Photo-Redox Reactions: Ambident Reactivity Enabling Photo-Cascade Synthesis of Diverse S- and N-Heterocycles from Olefins	SERB, New Delhi	Prof. Soumitra Maity	Chemistry and Chemical Biology
38	Assessing tsunami vulnerability of low-rise structures by SPH modelling"	SERB, New Delhi	Prof. Sukanta Chakraborty	Civil Engineering
39	Development Of Highly Accurate Immersed Interface Method For Direct Numerical Simulation Of Fluid-Structure Interaction Problems Under Compressible Flow Regime	SERB, New Delhi	Prof. Swagata Bhaumik	Mechanical Engineering
40	Evaluation of an evaporating nanofluid meniscus for improved performance of Heat Pipes	SERB, New Delhi	Prof. Pawan Kumar Singh	Mechanical Engineering
41	To strengthen the research facilities in the Department of Mining Engineering	DST, New Delhi	Prof. Rabindra Kumar Sinha	Mining Engineering
42	On the reductions of aerofoil-turbulence noise through wavy leading and trailing edge serrations	SERB, New Delhi	Prof. Subramanian Narayan	Mechanical Engineering
43	Development of guidelines for delineation of water stressed area and designing of environmental friendly water storage structure for meeting the water needs in mining areas	CIL, Ranchi	Prof. Prasoon Kumar Singh	Environmental Science & Engineering
44	Linear Canonical Transform and associated Wavelets and Wavelet Transform	SERB, New Delhi	Prof. Akhilesh Prasad	Mathematics and Computing

45	Numerical study of unsteady entropy generation and MHD combined convection in lid-driven porous enclosure	SERB, New Delhi	Prof. Pentyala Srinivasa Rao	Mathematics and Computing
46	Study of Multi-time Control Problem Governed by Curvilinear Integral Cost Functional with Applications	SERB, New Delhi	Prof. Anurag Jayswal	Mathematics and Computing
47	Investigating the optimal electricity generation mix for India using a fuzzy portfolio optimization approach	SERB, New Delhi	Prof. Mohd. Irfan	Management Studies & Industrial Engineering
48	To strengthen the research facilities in the Department of Applied Geology	DST, New Delhi	Prof. Shushanta Sarangi	Applied Geology
49	Real-time energy efficient cyber-physical intelligent system for mine slope health monitoring	CIL, Ranchi	Prof. Radhakanta Koner	Mining Engineering
50	Enhancing the operational efficiency of a hydraulic excavator machine by introducing a novel energy recuperative mechanism	SERB, New Delhi	Prof. Niranjan Kumar	Mechanical Engineering
51	Impact of pesticide drops on a leaf: Minimizing of the use of pesticides from the study of the spread	SERB, New Delhi	Prof. Deepak Kumar Mandal	Mechanical Engineering
52	Fluid-structure interactions in a power-law fluid	SERB, New Delhi	Prof. Subhankar Sen	Mechanical Engineering
53	Design and Development of Artificial Intelligence Based Fiber optic Respiration Rate Measurement System for "Psychophysiological Health Monitoring"	SERB, New Delhi	Prof. Amitesh Kumar	Electronics Engineering
54	Improving the Economic Well-Being of Scheduled Tribe Communities (ST) Using Game Theoretic and Operations Research Techniques in Jamtara District of Jharkhand State	DST, New Delhi	Prof. Rashmi Singh	Management Studies & Industrial Engineering
55	Design and Development of Compact and Low-profile Multiband Conformal Antenna System for In-vehicle Telecommunications Equipments Supporting Cellular/Communication Bands	SERB, New Delhi	Prof. Ravi Kumar Gangwar	Electronics Engineering
56	Quantum Error Correcting Codes (CSS Construction) with symbol pair metric over Finite Fields	SERB, New Delhi	Prof. Abhay Kumar Singh	Mathematics and Computing
57	Analytical Modelling of Multi-layered 2-D Transition metal dichalcogenide FET based Biosensor using Green's function approach	SERB, New Delhi	Prof. Manodipan Sahoo	Electronics Engineering
58	Mathematical study on the analysis of thermoelastic damping and frequency shift in thermoelastic micro/nano-scale beams with complexities	SERB, New Delhi	Prof. Abhishek Kumar Singh	Mathematics and Computing
59	Fabrication of different grades of tool steel by twin wire arc additive manufacturing combined with in-situ alloying	SERB, New Delhi	Prof. Amitava Mandal	Mechanical Engineering
60	Motivate School Students and Teachers Concerning the Relevance of Science and Technology through Innovative Communication Techniques	DST, New Delhi	Prof. Rashmi Singh	Management Studies & Industrial Engineering

61	Development of Millimeter-Wave MIMO Cognitive Radio Systems using Metasurface and Substrate Integrated Waveguide for Future Wireless Communication	SERB, New Delhi	Prof. Raghvendra Kumar Chaudhary	Electronics Engineering
62	Assessment of Properties of Coal Imported by Damodar Valley Corporation	Damodar Valley Corporation, Kolkata	Prof. Barun Kumar Nandi	Fuel, Minerals and Metallurgical Engineering
63	Trace element systematics and sulfur isotope signature of auriferous sulfides within the Vempalle dolostone: Implications for refractory gold mineralization in and around Tummalapalle area of South-western Cuddapah basin, Andhra Pradesh	SERB, New Delhi	Prof. Sahendra Singh	Applied Geology
64	An effort to synthesize artificial leather from jackfruit ( <i>Artocarpus heterophyllus</i> )	IIT(ISM), Dhanbad	Prof. Soumit Chatterjee	Chemistry and Chemical Biology
65	Chemical depolymerization of polyethylene terephthalate (PET) by graphene oxide (GO) supported transition metal complexes	SERB, New Delhi	Prof. Chanchal Halder	Chemistry and Chemical Biology
66	Integrated non-invasive geophysical, archeological and biogeochemical characterization of Itkhourri heritage sites in the Mohane River Valley	DST, New Delhi	Prof. Sanjit Kumar Pal	Applied Geophysics
67	The Lost Identity: A Sociological Study of the Silversmiths of Odisha	ICSSR, New Delhi	Prof. Sruti Kanungo	Humanities and Social Sciences
68	Conservation of the metallic cultural heritage assets by waterborne superhydrophobic and anti-dust coatings	DST, New Delhi	Prof. Aditya Kumar	Chemical Engineering
69	Design and analysis of code based public-key cryptosystem	DRDO, Hyderabad	Prof. Abhay Kumar Singh	Mathematics and Computing
70	Development of Machine Learning and Blockchain-Based methods for Business Enhancement	Aeroqube Technologies Private Limited, Delhi	Prof. Rajendra Pamula	Computer Science and Engineering
71	Studies in Nonlinear Dynamics of Mechanical Systems	DST, New Delhi	Prof. Aman Kumar	Mechanical Engineering
72	Joint geopotential field modelling for finding the missing link between the Chotanagpur Granite Gneiss Complex (CGGC) and Shillong-Meghalaya Plateau	SERB, New Delhi	Prof. Gangumalla Srinivasa Rao	Applied Geophysics
73	Performance Assessment of Skew and Curved Railway Bridges of Diverse Structural Configurations	S.R. Chaudhuri Consultancy Services Pvt. Ltd., Kolkata	Prof. Piyali Sengupta	Civil Engineering
74	A Study on consumers' attitude and future prospects towards buying green clothing in India	Aarnav Fashions Limited, Ahmedabad	Prof. Krishnendu Shaw	Management Studies & Industrial Engineering
75	Design and Investigation of High-Performance In <sub>0.52</sub> Al <sub>0.48</sub> As/In <sub>0.53</sub> Ga <sub>0.47</sub> As MOSFET with optimized switching efficiency	SERB, New Delhi	Prof. Kaushik Mazumdar	Electronics Engineering

76	Contract for intellectual services relative to support the itf work in india in the framework of the decarbonising transport in emerging economies (dtee) and the ndc transpot initiative for asia (ncd-tia)	Organisation for Economic Co-operation and Development, Paris France	Prof. Leeza Malik	Civil Engineering
77	Deconstruction of lignocellulosic biomass for bioenergy	SERB, New Delhi	Prof. Madhulika Gupta	Chemistry and Chemical Biology
78	Design and development of frequency stable and high Q-factor optoelectronic oscillator assisted by microwave photonic techniques	DRDO, New Delhi	Prof. Sanjeev Kumar Raghuwanshi	Electronics Engineering
79	Performance Evaluation of Box & Box Girder-type Railway Bridges under Sustained and Dynamic Loading	Pioneer Surveyors, Kolkata	Prof. Piyali Sengupta	Civil Engineering
80	Feasibility study of existing pipelines for hydrogen storage and transportation	BinSys Technologies Private Limited, New Delhi	Prof. Vinay Kumar Rajak	Petroleum Engineering
81	Development of Numerical algorithm and CDM Model for Fatigue life estimation of Hydraulic cylinder under various loading conditions	EKIN Techprudent Pvt. Ltd., Pune	Prof. K. Priya Ajit	Mechanical Engineering
82	Testing and analysis of coal sample for OTPS, Obra	Obra Thermal Power Project, Obra	Prof. Shalini Gautam	Fuel, Minerals and Metallurgical Engineering
83	Bricks with grooves and projections in the masonry wall without using mortar	Navayuga Engineering Company Limited	Prof. Sekhar Chandra Dutta	Civil Engineering
84	The Study of Evidence of Deep Ecology in the Early Buddhist Text	Indian Council of Historical Research, New Delhi	Prof. Gyan Prakash	Humanities and Social Sciences
85	CBM resource estimation and feasibility study of field development using fully-integrated Geocellular model approach coupled with AI/ML algorithms in the Damodar River Valley, Godavari, Mahanadi, Satpura and Rajmahal Basin, India	Directorate General of Hydrocarbons, New Delhi	Prof. Rajeev Upadhyay	Petroleum Engineering
86	Development of Integrated Geocellular model for CBM resource estimation with the support of Machine Learning based sub-surface image resolution enhancement and implementation of Joint-Inversion algorithm from newly acquired geoscientific data in the South Rewa Basin, Wardha valley (Wardha-Godavari basin), Kamptee sub-basin, Cambay-Kutch- Saurashtra basin and Rajasthan basin India	Directorate General of Hydrocarbons, New Delhi	Prof. Saurabh Datta Gupta	Applied Geophysics
87	Coastal Risk Analysis (CORAL): An India's perspective	SERB, New Delhi	Prof. Vittal Hari	Environmental Science & Engineering
88	Abiotic synthesis of methane at the recess of Martian crust and prospect of microbial life in the Noachian Mars - Constraints from experimental and meteorite studies	Indian Space Research Organisation	Prof. Alik Sundar Majumdar	Applied Geology

89	Lithotype control over gas storage, gas permeability and geomechanical attributes of coal seams: Implications for Coalbed Methane production and carbon dioxide sequestration in India	SERB, New Delhi	Prof. Ashutosh Tripathy	Applied Geology
90	Design, development and establishment of vibration assisted wire electrical discharge turning for aerospace materials to achieve better surface integrity	DRDO, Hyderabad	Prof. Alok Kumar Das	Mechanical Engineering
91	Design, synthesis and biological evaluation of Monopolar spindle 1 inhibitors as potential therapeutics for triple negative breast cancer"	SERB, New Delhi	Prof. Naga Rajiv Lakkaniga	Chemistry and Chemical Biology
92	Geometric Facility Optimization problems in Imprecise domain	SERB, New Delhi	Prof. Ankush Acharyya	Mathematics and Computing
93	Catalytic/Non-catalytic Co-Hydrothermal Liquefaction of Integrated Plastic Wastes with Food Waste/Agricultural Residue to Produce Renewable Transportation Fuel	SERB, New Delhi	Prof. Madhumita Patel	Environmental Science & Engineering
94	Machine learning-enabled framework for the design of new multicomponent alloys	SERB, New Delhi	Prof. Rahul M. R.	Fuel, Minerals and Metallurgical Engineering
95	Optimization of High-Speed Railway viaduct design	National High Speed Rail Corporation Limited	Prof. Piyali Sengupta	Civil Engineering
96	Performance Study of Steel Oil Storage Tanks under Seismic Loading"	Ministry of Earth Sciences, New Delhi	Prof. Tanish Dey	Civil Engineering
97	Investigation of slow flows of non-spherical granular materials	SERB, New Delhi	Prof. Sandip Mandal	Chemical Engineering
98	Role of Free Stream Excitation on the Separation-Induced Transition in Low Pressure Turbines Using an Accuracy-Preserving Parallel Algorithm	SERB, New Delhi	Prof. Aditi Sengupta	Mechanical Engineering
99	Experimental and numerical investigation of non-isothermal droplet dynamics in viscoelastic fluids	SERB, New Delhi	Prof. Antarip Poddar	Mechanical Engineering
100	Performance Improvement of Darrieus Hydrokinetic Turbine using different J-shape blades and Vortex Generator	SERB, New Delhi	Prof. Shibayan Sarkar	Mechanical Engineering
101	Explainable Deep Learning for Optimal Design and Robust Control of Coal Flotation Columns - Towards an Intelligent & Reliable Clean Coal Initiative	SERB, New Delhi	Prof. Priyanka Devi Pantula	Chemistry and Chemical Biology
102	Strategic Intervention for Developing Sustainable Entrepreneurial Ecosystem in Jharkhand	Maithon Power Limited, Dhanbad	Prof. Shashank Bansal	Management Studies & Industrial Engineering
103	Advanced Greedy Algorithms for Sparsity-Aided Generalized Online Caching	SERB, New Delhi	Prof. Samrat Mukhopadhyay	Electronics Engineering
104	Modular Synthesis of Fluorinated Azole Pharmaceuticals using Chan-Lam Coupling Variants	SERB, New Delhi	Prof. Parthasarathi Das	Chemistry and Chemical Biology
105	Investigating the impact of pore geometry on the non-linear filtration characteristics in porous media	SERB, New Delhi	Prof. Mrityunjay Kumar Singh	Mathematics and Computing



106	Utility Driven Approach to Learn Credible Interpretations of Machine Learning Models	SERB, New Delhi	Prof. Koustav Rudra	Computer Science and Engineering
107	Environmentally benign MnO <sub>2</sub> -nanoflower based biopolymer-nanocomposite for packaging and moisture/gas barrier properties	SERB, New Delhi	Prof. Ejaz Ahmad	Chemical Engineering
108	Rare earth elements identification and its recovery in Indian coals and coal by-products	SERB, New Delhi	Prof. Aarti Kumari	Fuel, Minerals and Metallurgical Engineering
109	Sampling and analysis of 58000 MT of reject from heap no. 4 B(R) Ext. New of Dahibari Coal Washery	BCCL, Dhanbad	Prof. Shravan Kumar	Fuel, Minerals and Metallurgical Engineering
110	Methane Production from Gas Hydrates Using Slow Depressurization and Carbon Dioxide Injection	SERB, New Delhi	Prof. Pawan Gupta	Petroleum Engineering
111	Design of a webserver-based hybrid physiological sensor with optical cloth for real-time health specialist care	SERB, New Delhi	Prof. SanjeevKumar Raghuwanshi	Electronics Engineering
112	Study of Strongly Coupled Non-Ideal Plasma States of Carbon at Extreme Conditions	SERB, New Delhi	Prof. Amitava Adak	Physics
113	Investigations of strongly correlated topological phases in heavy fermion and rare-earth materials	SERB, New Delhi	Prof. Sudeshna Sen	Physics
114	Capacity building for human resource development in Unmanned Aircraft System (Drone and related Technology)	Ministry of Electronics and Information Technology, New Delhi	Prof. Ravi Kumar Gangawar	Electronics Engineering
115	Smart Radio Environments: Implementation and deployment for targeted use-cases	TIH-IIIT, Bangalore	Prof. Samrat Mukhopadhyay	Electronics Engineering
116	Generation of high chirp rate dual chirp microwave waveform in Ku band using novel microwave photonic techniques for high performance radar application	SERB, New Delhi	Prof. SanjeevKumar Raghuwanshi	Electronics Engineering
117	Experimental investigations for the flow of viscoelastic and shear-thinning fluids through rigid and deformable tubes and channels	SERB, New Delhi	Prof. Bidhan Chandra	Chemical Engineering
118	Inference on parameters of discriminant functions and model-based classification for multivariate distributions	SERB, New Delhi	Prof. Naba Kumar Jana	Mathematics and Computing
119	Monitoring the aggregation kinetics of amyloid-beta and its inhibition	DST , New Delhi	Prof. Umakanta Tripathy	Physics
120	Wave scattering by new-type floating barriers in deep water	SERB, New Delhi	Prof. Ramanababu Kaligatla	Mathematics and Computing
121	Photocatalytic Sp <sup>3</sup> C-N Bond Formation Extended by MHAT Catalysis	SERB, New Delhi	Prof. Soumitra Maity	Chemistry and Chemical Biology
122	Development of spectrally efficient low complexity fast sparse channel estimation algorithms for orthogonal time frequency space (OTFS) modulation scheme	SERB, New Delhi	Prof. Himanshu Bhusan Mishra	Electronics Engineering



123	Multi-Window Cross-Correlation of Ambient Noise: A Novel Approach for Machine Learning Tools in Seismic Hazard Analysis	SERB, New Delhi	Prof. Mohit Agrawal	Applied Geophysics
124	Topological characterisation and entanglement content of the Mott metal-insulator transition	SERB, New Delhi	Prof. Sudeshna Sen	Physics
125	Single Crystal Growth and Study of Frustrated Magnetism in Triangular Lattice Cuprates Ba <sub>3</sub> Cu(Nb/Ta) <sub>2</sub> O <sub>9</sub>	SERB, New Delhi	Prof. Tusharkanti Dey	Physics
126	Development of Estimation Strategies for the Parameters of Stigmatized Characteristics Using Randomized Response Models	SERB, New Delhi	Prof. Garib Nath Singh	Mathematics and Computing
127	Multi-Carrier Waveforms for Intelligent Reflecting Surface (IRS) assisted Next-Generation Wireless Communication Systems	SERB, New Delhi	Prof. Himanshu Bhusan Mishra	Electronics Engineering
128	Development of dynamic geospatial framework and land suitability database for best alternative livelihood options in Indian Sundarban region	SERB, New Delhi	Prof. Sukha Ranjan Samadder	Environmental Science & Engineering
129	Evaluation and Synthesis of Green Hydrate Inhibitors with Enhanced Hydrate Inhibition and Biodegradability	SERB, New Delhi	Prof. Ajay Suri	Petroleum Engineering
130	Discontinuous Galerkin Finite Elements for Load Generation Mechanism in Titled pad Slider Bearing Lubrication	Department of Atomic Energy, Mumbai	Prof. Srinivasa Rao Pentylala	Mathematics and Computing
131	Towards Interpretable Information Systems: Leveraging Efficiency with Interpretability	DST , New Delhi	Prof. Koustav Rudra	Computer Science and Engineering
132	Design, Syntheses and Applications of Bifunctional Compounds of Tetravalent Group 14 Elements	SERB, New Delhi	Prof. Hari Pada Nayek	Chemistry and Chemical Biology
133	High Temperature CO <sub>2</sub> Capture using Novel Fly-ash infused CaO-MgO Sorbents in Pre & Post Combustion Processes: Kinetics, Thermodynamics and Breakthrough Studies	SERB, New Delhi	Prof. Soubhik Kumar Bhaumik	Chemical Engineering
134	Development of an advanced dragline simulation model for improving the operational efficiency of dragline operations in NCL	Northern Coalfields Limited, Singrauli	Prof. Sheo Shankar Rai	Mining Engineering
135	Review of Social Impact Assessment Framework for Coal Mining Industry in India	Central Coalfields Limited, Ranchi	PI-I: Prof. Aparna Krishna	Management Studies & Industrial Engineering
136	Regular Subsidence Monitoring Survey of Surda Mining Lease, Kendadh Mining Lease and Rakha Mining Lease for three (03) years	Hindustan Copper Limited, East Singhbhum	Prof. Mohammad Soyeb Alam	Mining Engineering
137	Autonomous and Privacy-Preserving Learning for Online and Intelligent Analysis of Urban Data	DST , New Delhi	Prof. Monidipa Das	Computer Science and Engineering
138	Carrying Capacity Study of Dhanbad city under National Clean Air Program (NCAP)	Jharkhand State Pollution Control Board, Ranchi	Prof. Suresh Pandian Elumalai	Environmental Science & Engineering

139	Design and Development of Substrate Integrated Waveguide based Self-multiplexing Antennas for 5G communication systems	SERB, New Delhi	Prof. Santanu Dwari	Electronics Engineering
140	Nitrogen Removal from Coal Tar	Tata Steel Limited, Jamshedpur	Prof. Ejaz Ahmad	Chemical Engineering
141	Development of Computer Program and Experimental set-up for Response Assessment of Concrete Structures under Drop-weight Impact and Contact Explosions	SERB, New Delhi	Prof. Satadru Das Adhikary	Civil Engineering
142	Aerodynamic and aeroacoustic characteristics and noise control of isolated and tandem propellers with and without installations	SERB, New Delhi	Prof. Kabilan B	Mechanical Engineering
143	Development of Algorithms for Collaborative Dual Arm Manipulation and Control	DRDO, Pune	Prof. Arun Dayal Udai	Mechanical Engineering
144	Biomechanical analysis on the use of Pulsating Liquid Jet in cement removal from the femoral canal in Revision Total Hip Arthroplasty: A novel approach for biomedical application	SERB, New Delhi	Prof. Amit Rai Dixit	Mechanical Engineering
145	Slope Instability Severity (SIS) Assessment at Coalfield Level using Integration of Innovative Spaceborne InSAR and Relevant Data for Enhanced Slope Failure Predictions	SERB, New Delhi	Prof. Mohammad Soyeb Alam	Mining Engineering
146	Assessment of basin scale terrestrial water balance closure and evaluation of its uncertainty	SERB, New Delhi	Prof. Kironmala Chanda	Civil Engineering
147	3D printing of overhang structures through different metal transfer strategies using wire arc additive manufacturing process	SERB, New Delhi	Prof. Alok Kumar Das	Mechanical Engineering
148	Regional Centre for Geodesy	DST, New Delhi	Prof. Vasanta Govind Kumar Villuri	Mining Engineering
149	Feasibility of bulk scale production of S/N-doped porous carbon and graphitic-C <sub>3</sub> N <sub>4</sub> based metal chalcogenides Anodes for sodium-ion battery	IIT(ISM), Dhanbad	Prof. Ganesh Cahndra Nayak	Chemistry and Chemical Biology
150	Factors Affecting Transformational Rural Development and Enhanced Employment Opportunities through Sustainable Entrepreneurial Ventures in Rural areas of Eastern India	ICSSR, New Delhi	Prof. Niladri Das	Management Studies & Industrial Engineering
151	Social hierarchy and resource allocation decisions: The influence of status and power on delay, social, and probability discounting	ICSSR, New Delhi	Prof. Sathya Narayana Sharma	Humanities and Social Sciences
152	Performance assessment of structural design for the construction Major Bridge & ROBs in accordance with National Standards	Rotrans Infra Projects Private Limited, Bhubaneswar, Odisha	Prof. Smruti Sourava Mohapatra	Civil Engineering
153	Polysaccharide based copolymeric hydrogels for biomedical applications	SERB, New Delhi	Prof. Sagar Pal	Chemistry and Chemical Biology
154	Coloring graphs with at most $\Delta-1$ Colors	Department of Atomic Energy, Mumbai	Prof. Dinabandhu Pradhan	Mathematics and Computing

155	Effectiveness of Organ Donation Nudges: Evidence from Eastern Regions of India	ICSSR, New Delhi	Prof. Sabnam Basu	Management Studies & Industrial Engineering
156	On the reductions of airfoil-turbulence noise through novel dimple configurations	SERB, New Delhi	Prof. Kabilan B	Mechanical Engineering
157	Detection and Monitoring of Longwall Subsidence of Moonidih Colliery, BCCL using Spaceborne SAR Interferometry (InSAR) Techniques	BCCL, Dhanbad	Prof. Mohammad Soyeb Alam	Mining Engineering
158	Advanced Wear and Corrosion Resistance Coatings Development and Commercialization in India	DST, New Delhi	Prof. Kesavan Ravi	Fuel, Minerals and Metallurgical Engineering
159	Ultra-Low Power Neuromorphic Spiking Architecture for Assistive Smart Glass	Ministry of Electronics and Information Technology, New Delhi	Prof. Rajeev Kumar Ranjan	Electronics Engineering
160	Concept of temporal networks in hydroclimatic modelling in a changing climate: Application to streamflow and drought	Ministry of Earth Sciences, New Delhi	Prof. Kironmala Chanda	Civil Engineering
161	Single crystal growth and search for novel magnetic phases in 3d Co2 + frustrated compounds: A3CoTa2O9 (A=Ba, Sr, Ca)	UGC-DAE CSR, Indore	Prof. Tusharkanti Dey	Physics
162	A micro-level study on the role of the "Financial Channel" in the "Resource Curse" phenomenon: Special focus on banking sector data and behavioral variables from Jharkhand	ICSSR, New Delhi	Prof. Krittika Banerjee	Management Studies & Industrial Engineering
163	Emulation Friendly Modeling of RF Power Amplifiers for Pre-Silicon Verification	Analog Devices India Private Limited, Bangalore	Prof. Rahul Bhattacharya	Electronics Engineering
164	Development of a finite-element based Navier-Stokes solver to study the flow of non-Newtonian fluids past single/double objects in an extremely narrow channel	SERB, New Delhi	Prof. Subhankar Sen	Mechanical Engineering
165	Performance Evaluation of Nanolubricants in Cryogenic Environment for Low Temperature Applications	DRDO, Kanpur	Prof. Subrata Kumar Ghosh	Mechanical Engineering
166	FIST Engineering Sciences Level B C or D - Project	DST, New Delhi	Prof. Shravan Kumar	Fuel, Minerals and Metallurgical Engineering
167	Storage of hydrogen-methane mixture in porous aromatic frameworks (pafs): a multi-scale computational investigation	SERB, New Delhi	Prof. Sridhar Sahu	Physics
168	Utilization of Cement Slurry Waste	ESL Steel Limited, Bokaro	Prof. Sarat Kumar Das	Civil Engineering
169	Development of customized processing sequences of exploration seismic data in the Damodar River valley basin to detect coal seams-based reservoir towards extended CBM exploration through the build-up of high-resolution image	Essar Oil and Gas Exploration and Production Ltd., Durgapur	Prof. Saurabh Datta Gupta	Applied Geophysics
170	Development of Synthetic Lightweight Aggregates as Backfilling Material using Hydraulic Stowing Metho	CMPDI, Ranchi	Prof. Bhanwar Singh Choudhary	Mining Engineering
171	Upgrading biogas plants using bio-electrochemical systems for transforming agro-waste to clean energy	Indore Clean Energy Private Limited, Indore	Prof. Vipin Kumar	Environmental Science & Engineering

172	Organogermanium Supported Polynuclear Metal Complexes as Cooperatives Catalysts for Organic Reaction	CSIR, New Delhi	Prof. Hari Pada Nayek	Chemistry and Chemical Biology
173	Design, Fabrication and Calibration of Nanomaterial based Temperature Sensors for short-Duration Transient Measurements	CSIR, New Delhi	Prof. Rakesh Kumar	Mechanical Engineering
174	Creation of nodal centers for the production of imported APIs, KSMs and Intermediates to achieve self-sufficiency in health-care sector	DST, New Delhi	Prof. Parthasarathi Das	Chemistry and Chemical Biology
175	Development of Polymer augmented surfactant-based microemulsion systems for enhanced oil recovery	MHRD(SPARC), New Delhi	Prof. Ajay Mandal	Petroleum Engineering
176	Data reduction and surrogate modelling of transition to turbulence to Rayleigh-Taylor instability data obtained by DNS	DST, New Delhi	Prof. Aditi Sengupta	Mechanical Engineering
177	Micromechanical Simulation of Overburden Dump Slope under Field Geomining Conditions	MHRD(SPARC), New Delhi	Prof. Radhakanta Koner	Mining Engineering
178	Characterization of sulphide minerals in Indian basemetal and gold deposits for assessment of strategic element recovery opportunity	SERB, New Delhi	Prof. Prabodha Ranjan Sahoo	Applied Geology
179	Assessment of Imported Coal Properties of Damodar Valley Corporation	DVC, Kolkatta	Prof. Barun Kumar Nandi	Fuel, Minerals and Metallurgical Engineering
180	Design of multi-stable variable stiffness composite shells for morphing applications	DRDO, New Delhi	Prof. Tanish Dey	Civil Engineering
181	Studies on Tellurium, Selenium and Indium concentration in copper beneficiation plants for estimating recovery potential	Hindustan Copper Limited, Kolkata	Prof. Vipin Kumar	Environmental Science & Engineering
182	3D Printing of Engineering Components through cold Spray Technique	CSIR, New Delhi	Prof. Alok Kumar Das	Mechanical Engineering
183	The Quest for Tribal Identity: Religion, Environment and Ethnic Politics in Darjeeling Himalayas, India	ICSSR, New Delhi	Prof. Sangay Tamang	Humanities and Social Sciences
184	Image-based modelling and optimisation of convection-enhanced delivery for combination therapy against heterogeneous human brain tumour	The Royal Society, London, United Kingdom	Prof. Ajay Bhandari	Mechanical Engineering
185	Development of Upconversion Nanoparticles Conjugated Carbon Dots as Amplified Singlet Oxygen Generator for Synergistic Photodynamic Therapy	Ministry of Education, New Delhi	Prof. Sumanta Kumar Sahu	Chemistry and Chemical Biology
186	Development of Suitable Methodology for Utilization of Coal Mine Overburden in Road Construction	TEXMiN (Technology Innovation in Exploration & Mining Foundation), DST, New Delhi	Prof. Smruti Sourava Mohapatra	Civil Engineering
187	Formulation of spray technique for sand crust (Composite) with binder solutions and laboratory testing of sand crust	DRDO, Jodhpur (Rajasthan)	Prof. Sarthak Sambit Singh	Mechanical Engineering
188	ChalPV: Chalcogenide-Perovskite (BaZrS <sub>3</sub> ) based Photovoltaic Devices	DST, New Delhi	Dr. Jitendra Kumar	Electronics Engineering

189	Memristor Based Multilayer Neural Networks (MNN) And Its Application in Neuromorphic System	CSIR, New Delhi	Prof. Rajeev Kumar Ranjan	Electronics Engineering
190	Deployment of Smart Portable Off-Grid Hybrid Combined Heat & Power Unit Based on Hybrid Energy (Solar and Biomass) for Micro Farming and Small Food Processing Industries Located in Rural Areas of Jharkhand	Jharkhand Renewable Energy Development Agency, Ranchi	Prof. Nitai Pal	Electrical Engineering
191	Understanding the role of chemical composition, size, and sources on the particulate matter toxicity	SERB, New Delhi	Prof. Saifi Izhar	Environmental Science & Engineering
192	Cretaceous climate evolution in middle latitude Tethys, a study from green-silicates of Mahadek Formation, South Shillong Shelf	SERB, New Delhi	Prof. Udita Bansal	Applied Geology
193	Public Health Challenges in Mining Areas of Jharkhand	Dr. Ramdayal Munda Tribal Welfare Research Institute, Government of Jharkhand, Ranchi	Prof. Deepika Sharma	Humanities and Social Sciences
194	Evaluation and Impact of the SMILE project	The Energy And Resource Institute, New Delhi	Prof. Saumya Singh	Management Studies & Industrial Engineering
195	IPR Chair Professor, Scheme for Pedagogy & Research in IPRs for Holistic Education and Academia (SPRIHA)	Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, GoI, New Delhi	Prof. Anand Rajagopal	NVCTI
196	Integrated Fermentation and Chemical Catalysis for Jet Range Biorenewable Fuels and Blends	Department of Biotechnology, Government of India, New Delhi	Prof. Ejaz Ahmad	Chemical Engineering
197	Design and Analysis of Axial Flux Machine Technology for Electric Vehicle Motor Drives	SERB, New Delhi	Prof. Srinivas Lakshmi Vedantham	Electrical Engineering
198	Investigation of Modal and Non-Modal Instability in Fluid-Porous Double-Layer Configuration	SERB, New Delhi	Prof. Sourav Sengupta	Chemical Engineering
199	Bayesian Optimization-based Neural-Symbolic Artificial Intelligence (BONSAI) for Explainable Learning from Urban Data	SERB, New Delhi	Prof. Monidipa Das	Computer Science and Engineering
200	Investigations of Interoperability of Grid-forming Assets in Hybrid Power System	SERB, New Delhi	Prof. Dushyant Sharma	Electrical Engineering
201	Inferring Cancer Networks using Computational Biology	DST , New Delhi	Dr. Haswanth Vundavilli	Electrical Engineering
202	Diagnostic Analysis and Process Improvement through Process Mapping: A Comprehensive Study of Ankur Biochem Private Limited	Ankur Biochem Private Limited, Dhanbad	Prof. Bibhas Chandra	Management Studies & Industrial Engineering
203	Blast fragment impact mitigation of structures using light weight Steel cementitious composite steel (SCCS) and Functionally graded cementitious composite (FGCC) systems	DRDO, New Delhi	Prof. Satadru Das Adhikary	Civil Engineering
204	Critical Analysis, Design, EM Modeling & Optimization of millimeter wave planar antenna	DRDO (CARS), Jodhpur, Rajasthan	Prof. Ravi Kumar Gangwar	Electronics Engineering
205	Design and experimental studies of the fiber-reinforced polymer (FRP) solid rock bolts for underground mine support systems	Ministry of Mines, New Delhi	Prof. Kalyan Kumar Singh	Mechanical Engineering

206	Data-driven Mineral Prospectivity Mapping in Jharkhand and its Surroundings	TEXMiN (Technology Innovation in Exploration & Mining Foundation), DST, New Delhi	Prof. Partha Pratim Mandal	Applied Geophysics
207	A cross-lingual study of neuron-level explainability of deep natural language processing models and its application in framework building for cross-lingual natural language processing systems	SERB, New Delhi	Prof. Ayan Das	Computer Science and Engineering
208	Assessing the feasibility of using locked GFP chromophore derivatives in protein sensing, protein imaging as well as fluorogenic RNA-aptamer based imaging to design improved fluorophores	SERB, New Delhi	Prof. Soumit Chatterjee	Chemistry and Chemical Biology
209	Effective utilization and life enhancement of tailing pond at West Bokaro	Tata Steel Limited, Jamshedpur	Prof. Sagar Pal	Chemistry and Chemical Biology
210	Monitoring of Air Quality in Non-monsoon period at identified locations in Cluster 1 & Cluster 2 group of mines under Mugma Areas, ECL, both Ambient and the process area to arrive at the impact of proposed restructuring/changes in both clusters	Eastern Coalfields Limited Mugma, Dhanbad	Prof. Saifi Izhar	Environmental Science & Engineering
211	Reduction of Specific fresh Water Consumption (SFWC) at OMQ	Tata Steel Limited, Jamshedpur	Prof. Sukha Ranjan Samadder	Environmental Science & Engineering
212	Rapid growing natural flora to instantaneously develop green cover in opencast Iron ore mines	Tata Steel Limited, Jamshedpur	Prof. Subodh Kumar Maiti	Environmental Science & Engineering
213	Assessment of Rock Mass Rippability through Geotechnical Investigations for Selection of Suitable Ripper and its Operating Parameters for Sandstone Formations of West Bokaro Mine, Tata Steel Limited	Tata Steel Limited, Jamshedpur	Prof. L.A. Kumaraswamidhas	Mechanical Engineering
214	Assessment of Rock Mass Rippability through Geotechnical Investigations for Aiding Selection of Suitable Ripper for Joda East and Khondbond Mines of Tata Steel Limited	Tata Steel Limited, Jamshedpur	Prof. L.A. Kumaraswamidhas	Mechanical Engineering
215	Quest for novel magnetism in selected 3d and 5d based transitional metal oxides	Indo German DST DAAD	Prof. Tusharkanti Dey	Physics
216	Aeroelastic and Gust Response Analysis of Variable Stiffness Smart Composite Wing	SERB, New Delhi	Prof. Prashanta Kumar Mahato	Mechanical Engineering
217	Synthesis of C-Aryl/Heteroaryl Glycosides via Photoredox-Catalyzed Homolysis of Glycosyl C-O Bonds: Application to the Synthesis of Neopetrosine Alkaloids A-D	SERB, New Delhi	Prof. Somnath Yadav	Chemistry And Chemical Biology
218	Application of spectroscopic methods and machine learning algorithms for a rapid and reliable estimate of the gross calorific value (GCV) in high-ash Indian coal	SERB, New Delhi	Prof. Anup Krishna Prasad	Applied Geology



219	Approximate closed form solution of an FGM rotating disc subjected to thermal stresses and its inverse estimation for thermo-mechanical parameters	SERB, New Delhi	Prof. Ashis Mallick	Mechanical Engineering
220	Development of Advection-Diffusion Based Chemo-Thermo-Physical Model for Post-fracturing Pressure Build-up in Shale Formations	SERB, New Delhi	Prof. Vinay Kumar Rajak	Petroleum Engineering
221	Development of sustainable technology for efficient utilisation of goethitic ore through magnetising roasting using Biochar	Ministry of Steel, New Delhi	Prof. Shatrughan Soren	Fuel, Minerals and Metallurgical Engineering
222	Development of ceramic dielectric material potentially viable for microwave devices	DST, New Delhi	Prof. Ravi Kumar Gangwar	Electronics Engineering
223	Student Suicides in Prime Engineering Institutions': Understanding the Socio-psychological Base of the Mental Health Emergency	ICSSR, New Delhi	Prof. Sucharita Maji	Humanities and Social Sciences
224	Site-Specific Challenges of Larger Offshore Wind Turbines along Indian Coast and Possible Geotechnical Solutions	SERB, New Delhi	Prof. Rajib Sarkar	Civil Engineering
225	Improved Lightweight Design of Variable Stiffness Composite Aircraft Panels Enabled by Tow-Steering and Machine Learning	SERB, New Delhi	Prof. Tanish Dey	Civil Engineering
226	YESI Knowledge Exchange Fellows scheme: 2023-2024	University of York, United Kingdom	Prof. Saifi Izhar	Environmental Science & Engineering
227	Engineer Ultrafast Switching in FePt-based Ferrimagnetic Alloys	SERB, New Delhi	Prof. Ritwik Mondal	Physics
228	Industrial scale up of biodegradable, non-polymer super-hydrophobic jute fabric exhibiting excellent water repellency & stiffness for shopping/hand bag products	National Jute Board, Ministry of Textiles, Kolkata	Prof. Aditya Kumar	Chemical Engineering
229	Development of "Chloroform COWare Chemistry" as Toolbox for Safe Carbonylative Transformations	SERB, New Delhi	Prof. Parthasarathi Das	Chemistry and Chemical Biology
230	Foraminiferal, geochemical and sedimentological investigations on Holocene sediments of the Bay of Bengal: Unveiling climatic variations, oxygen-deficient environments and seepage effects	SERB, New Delhi	Prof. Ajoy Kumar Bhaumik	Applied Geology
231	The Game of Cops and Robbers and its Variations: Theory and Bounds	SERB, New Delhi	Prof. Dinabandhu Pradhan	Mathematics and Computing
232	Geochemical and mineralogical approach for the classification of pegmatites and related rocks in Koderma, Jharkhand and Mandya, Karnataka to evaluate the economic potentiality for Li-Cs-Rb, Nb-Ta and REE	SERB, New Delhi	Prof. Anand Rajagopal	Applied Geology
233	Synthesis of Bio-Based Zwitterionic surfactant for use in Enhanced Oil recovery (EOR) at High Reservoir Temperature Conditions	SERB, New Delhi	Prof. Tarun Kumar Naiya	Petroleum Engineering



234	Live cell imaging of RNA aggregation in nucleotide repeat expansion disorders	SERB, New Delhi	Prof. Sourav Kumar Dey	Chemistry and Chemical Biology
235	Long-Term Stress Field Perturbation and Stress Modeling Along the Myanmar-Andaman-Sumatra Subduction Margin	SERB, New Delhi	Prof. Prosanta Kumar Khan	Applied Geophysics
236	Growth of $\beta$ -Ga <sub>2</sub> O <sub>3</sub> /SnO <sub>2</sub> Heterostructure Integration for UV Photodetector	SERB, New Delhi	Prof. R. Thangavel	Physics
237	Development of a wind turbine condition monitoring system using signal processing and machine learning techniques	SERB, New Delhi	Prof. Sachin Kumar Singh	Mechanical Engineering
238	Performance Enhancement of Cr-Mn based Austenitic Stainless Steel to be a Potential Low-cost Alternative to 300-Series	SERB, New Delhi	Prof. Madhumanti Bhattacharyya	Fuel, Minerals and Metallurgical Engineering
239	Photo-thermal optimization of upconversion nanoparticles as contrast enhancer for Optical Coherence Tomography (OCT)	SERB, New Delhi	Prof. Kaushal Kumar	Physics
240	Geochemical and paleomagnetic study of dolerite dykes in Meghalaya Plateau, Northeast India: Implications on mantle processes and geodynamic evolution	SERB, New Delhi	Prof. Anand Rajagopal	Applied Geology
241	Studies on Ecosystem Services at GP-II Coal Block, Tamnar, Chhattisgarh	Adani Enterprises Limited, Ahmedabad	Prof. Vipin Kumar	Environmental Science & Engineering
242	Inspection of GPIs for Compliance Verification	Central Pollution Control Board, Ministry of Environment, Forest & Climate Change, New Delhi	Prof. Anshumali	Environmental Science & Engineering
243	Market Potential & Purchase intention of Ceramic Tiles: a study among Indian consumers	Crystal Ceramic Industries Limited, Ahmedabad	Prof. Krishnendu Shaw	Management Studies & Industrial Engineering
244	Factors and Challenges Affecting the Tribal Heritage Entrepreneurship Opportunity in the Tribal Areas of the State of Jharkhand	ICSSR, New Delhi	Prof. Himanshu Gupta	Management Studies & Industrial Engineering
245	CIL Innovation and Incubation Centre	Coal India Limited	Prof. Rabindra Kumar Sinha	Mining Engineering
246	Tata Steel Innovation Centre on Mining and Mineral Research, (Tata Steel - ICMR)	Tata Steel Ltd.	Prof. Sagar Pal	Chemistry and Chemical Biology
247	Naresh Vashisht Centre for Hydrogen and Carbon Capture, Utilization and Storage Technologies	Shri Naresh Vashisht Foundation	Prof. Sandipan Kumar Das	Mechanical Engineering
248	Capacity Building Training Programmes on Basic Level and Advanced Level Information Technology and Computer Training for Tribals in Jharkhand	Ministry of Tribal Affairs, New Delhi	Prof. Rashmi Singh	Management Studies & Industrial Engineering
249	Visvesvarara Ph. D Scheme for Electronics and IT at IIT-ISM, Dhanbad	Ministry of Electronics and Information Technology, New Delhi	Prof. Ravi Kumar Gangwar	Electronics Engineering
250	Visvesvaraya PhD Scheme for Electronics and IT: Phase II at Indian Institute of Technology-ISM, Dhanbad	Ministry of Electronics and Information Technology, New Delhi	Prof. Ravi Kumar Gangwar	Electronics Engineering

251	Visvesvaraya PhD Scheme for Electronics and IT: Phase II at Indian Institute of Technology-ISM, Dhanbad	Ministry of Electronics and Information Technology, New Delhi	Prof. Ravi Kumar Gangwar	Electronics Engineering
253	Visvesvaraya PhD Scheme for Electronics and IT: Phase II at Indian Institute of Technology-ISM, Dhanbad	Ministry of Electronics and Information Technology, New Delhi	Prof. Ravi Kumar Gangwar	Electronics Engineering